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MOVABLE HANDLE FOR A POWER TOOL

RELATED APPLICATION

This is a division of patent application Ser. No. 09/618, 217, filed Jul. 18, 2000 now U.S. Pat. No. 6,301,790, which is a continuation of patent application Ser. No. 09/134,626, filed Aug. 14, 1998, now U.S. Pat. No. 6,108,916, issued Aug. 29, 2000.

BACKGROUND OF THE INVENTION

The present invention relates to power tools and, more particularly, to a handle arrangement for power tools.

A power tool, such as a circular saw, generally includes a housing supporting a motor which rotatably drives a tool element, such as a saw blade. Typically, an operator's handle is integrally formed with the housing. In a circular saw, a shoe plate supports the saw on the surface of a workpiece.

In some circular saws, the housing is adjustable relative to the shoe plate to change the depth of cut of the saw blade. For example, the housing may pivot relative to the shoe plate about an axis adjacent the front of the shoe plate (front pivot depth adjustment) or about an axis adjacent the rear of the shoe plate (rear pivot depth adjustment). In another construction, the shoe plate is slidably lowered and raised relative to the housing (drop shoe depth adjustment). In each of these depth adjustment arrangements, when the depth of cut of the saw blade is adjusted, the position and/or orientation of the handle relative to the workpiece is also adjusted.

U.S. Pat. No. 4,516,324 discloses a modular housing system for a circular saw. The circular saw includes a single, one-piece housing having an interface portion which interchangeably mounts either a pivot adjust subassembly or a vertical (drop shoe) adjust subassembly for changing the depth of cut of the circular saw. The main handle can have either a "push handle" configuration or a "top handle" configuration. The selected handle component is slipped onto the one-piece field case and secured by fasteners.

SUMMARY OF THE INVENTION

One of the problems with a circular saw including an operator's handle that is integrally formed with the housing, is that, in some cutting operations, the operator may prefer a "push handle" to a "top handle" or vice versa. However, the operator cannot adjust the handle to the desired position relative to the housing. Another problem with a circular saw with an integral handle is that, when the depth of cut of the saw blade is adjusted, the handle position and orientation also changes. The resulting handle position is often uncomfortable and is seldom the optimal position for operation of the circular saw.

For example, in a circular saw with a front pivot depth adjustment assembly, at full depth of cut, the handle is typically positioned as a "push handle". At a minimum depth of cut, the handle position is changed to a "top handle" position. In a circular saw with a rear pivot depth adjustment assembly, at full depth of cut, the handle must be oriented above a typical "push handle" position because, when the saw is adjusted to a minimum depth of cut, the handle is 60 lowered.

One problem with the handle arrangement disclosed in U.S. Pat. No. 4,516,324 is that the circular saw includes two separate handles. The handle component that is not in use must be stored and may be lost or damaged.

Another problem with the handle arrangement disclosed in U.S. Pat. No. 4,516,324 is that the saw includes a handle

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that is only a "push handle" or a "top handle" and that is not adjustable between these configurations. Additional fasteners are also required.

The present invention provides a handle arrangement for a power tool that alleviates the problems with the above-described handle arrangements. The invention provides a power tool, such as a circular saw, that includes a handle that is movable relative to the motor housing. Preferably, the handle is pivotable about the axis of the saw blade relative to the motor housing.

Also, the invention provides a locking assembly for locking the handle in a position relative to the housing. Preferably, the locking assembly provides a frictional engagement between the handle and the housing and includes a clamping member that releasably applies a clamping force to the housing to lock the handle in a position relative to the housing. Preferably, the locking assembly also provides a positive engagement between the handle and the housing and includes inter-engaging teeth formed on both the handle and the housing.

Further, the invention provides means for connecting the switch to the motor to accommodate movement of the switch with the handle and relative to the motor. Preferably, the connecting means are provided by a wiring arrangement.

In addition, the invention provides interaction between the switch and the locking assembly to prevent inadvertent operation of one when the other is operated. Specifically, the switch preferably cannot be operated when the locking assembly is unlocked, and the locking assembly cannot be unlocked when the switch is connecting the motor to the power source.

One advantage of the present invention is that the handle is movable relative to the housing of the power tool to allow the operator to position the handle as desired for a given cutting operation. As a result, the operator can adjust the handle to a position that is most comfortable and allows the greatest control of the circular saw during cutting operations.

Another advantage of the present invention is that, when the circular saw is adjusted to change the depth of cut of the saw blade, the operator can also adjust the handle to an optimum position for the given cutting operation.

Yet another advantage of the present invention is that the circular saw does not include additional components that must be substituted for one another to change the configuration of the handle or additional fasteners. This reduces the chance that such an additional component is lost or damaged and also eliminates the need to store additional components.

A further advantage of the present invention is that the handle is adjustable to substantially any position between a first position, such as a "push handle" position, and a second position, such as a "top handle" position.

Other features and advantages of the invention will become apparent to those skilled in the art upon review of the following detailed description, claims and drawings.

DESCRIPTION OF THE DRAWINGS

FIGS. 1A, 1B and 1C are side views of a power tool embodying the invention and illustrating the adjustment of the handle arrangement.

FIG. 2 is a perspective view of the power tool shown in FIGS. 1A-1C.

FIG. 3 is an enlarged perspective view of a portion of the power tool shown in FIG. 2 with portions cut away.

FIG. 4 is a side partial cross-sectional view of the handle arrangement shown in FIG. 3.

FIG. 5 is a view similar to that shown in FIG. 4 and illustrating the locking assembly in an unlocked condition.

FIG. 6 is an enlarged partial cross-sectional view of a portion of the handle arrangement shown in FIG. 4.

FIG. 7 is an exploded perspective view of a portion of the 5 handle arrangement shown in FIG. 4.

FIG. 8A is a view taken generally along line 8A-8A in FIG. 6.

FIG. 8B is a view similar to that shown in FIG. 8A and 10 illustrating the shuttle switch in a lateral position.

Before one embodiment of the invention is explained in detail, it is to be understood that the invention is not limited in its application to the details of the construction and the arrangements of the components set forth in the following 15 description or illustrated in the drawings. The invention is capable of other embodiments and of being practiced or carried out in various ways. Also, it is understood that the phraseology and terminology used herein is for the purpose of description and should not be regarded as limiting.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

A power tool embodying the invention is illustrated in FIG. 1A. In the illustrated construction, the power tool is a circular saw 10 and includes a motor housing 14 supporting an electric motor 18 (shown schematically in FIG. 1A). The motor 18 is connectable to a power source and is operable to rotatably drive a tool element, such as a saw blade 22, about an axis 26 to cut a workpiece W.

The circular saw 10 also includes (see FIGS. 1A-1C) a shoe plate 30 connected to the housing 14 for pivotal movement about a pivot axis 34. The shoe plate 30 has a support surface 38 for supporting the circular saw 10 on the surface of the workpiece W. An aperture 42 is defined by the shoe plate 30. A portion of the saw blade 22 extends through the aperture 42 to cut the workpiece W. FIG. 1A illustrates the shoe plate 30 adjusted so that the saw blade 22 is at a maximum depth of cut. FIGS. 1B and 1C illustrate the shoe plate 30 adjusted so that the saw blade 22 is at a minimum depth of cut.

In the illustrated construction, the circular saw 10 includes a front pivot depth adjustment assembly 46 to adjust the depth of cut of the saw blade 22. The depth adjustment assembly 46 includes a pivot member 50 defining the pivot axis 34 and pivotally connecting the shoe plate 30 to the housing 14. As shown in FIG. 1B, a guide member 54 cooperates with a depth adjustment locking member 58 (shown in phantom) to lock the shoe plate 30 in a pivoted position relative to the housing 14 thereby fixing the depth of cut of the saw blade 22. A depth adjustment lever 62 operates the locking member 58 between locked and unlocked positions.

In other constructions (not shown), the circular saw 10_{55} may include, for example, a rear pivot depth adjustment assembly or a drop shoe depth adjustment assembly rather than the front pivot depth adjustment assembly 46. It should be understood that the present invention applies to a circular saw with any type of depth adjustment assembly.

The circular saw 10 also includes (see FIGS. 2-6) a movable handle arrangement 66. The movable handle arrangement 66 includes a main operator's handle member 70 movably supported on a support portion 72 of the housing 14 so that the position of the handle member 70 is adjustable 65 relative to the housing 14. Further, with the depth adjustment assembly 46 locked and the saw blade 22 at a desired depth

of cut, the handle member 70 is adjustable relative to the shoe plate 30 and relative to the surface of the workpiece W (as shown in the change of position between FIGS. 1B and 1C).

In the illustrated construction, the handle member 70 has (see FIGS. 4-6) opposite handle halves 74 and a rearward grip member 78. Further, in the illustrated construction, the handle member 70 is supported to be pivotable about the axis 26 of the saw blade 22 relative to the housing 14. However, in other constructions (not shown), the handle member 70 may be pivotable about an axis that is generally parallel to the axis 26. Also, in yet other constructions (not shown), the handle member 70 may be slidable along an axis normal to the axis 26 relative to the housing 14. The circular saw 10 also includes (see FIGS. 3-7) a locking assembly 82 to fix the handle member 70 on the support portion 72 of the housing 14 in a pivoted position relative to the housing 14. As explained in more detail below, the locking assembly 82 is operable between a locked condition (shown in FIGS. 4 and 6), in which the handle member 70 is fixed in a position relative to the housing 14, and an unlocked condition (shown in FIG. 5), in which the position of the handle member 70 relative to the housing 14 is adjustable.

The locking assembly 82 includes (see FIGS. 3-7) a locking member 86 which, in the illustrated construction, is a clamping band movably supported on the handle member 70 to releasably apply a clamping force to the support portion 72 of the housing 14. As shown in FIGS. 4 and 5, one end 90 of the locking member 86 is fixed to a stud 94 formed on the handle member 70. The other end 98 of the locking member 86 supports a through pin 100 and is movably connected to the handle member 70, as explained in more detail below. The handle member 70 and the locking member 86 are connected about the support portion 72 of the housing 14.

The locking assembly 82 also includes (see FIGS. 3-7) an actuating member 102 for moving the locking member 86 between a locked position and an unlocked position corresponding to the locked condition and the unlocked condition, respectively, of the locking assembly 82. The actuating member 102 is pivotably supported on the handle member 70 and includes a cam-shaped portion 106 and a lever portion 110. A tapped pin 114 is supported off-center in the cam-shaped portion 106, and an annular opening 118 is formed in the cam-shaped portion 106. A tab 122 extends from the lower surface of the lever portion 110.

To movably connect the end 98 of the locking member 86 to the handle member 70, the locking assembly 82 also includes a threaded pin 126 which engages the through pin 100 connected to the end 98 of the locking member 86. The threaded pin 126 also extends through the tapped pin 114 supported in the cam-shaped portion 106 of the actuating member 102. The annular opening 118 accommodates pivoting movement of the actuating member 102 relative to the threaded pin 126.

To move the locking member 86 between the locked and unlocked positions, the actuating member 102 is pivoted, moving the threaded pin 126 and the end 98 of the locking member 86. As the actuating member 102 is moved from the locked position (shown in FIG. 4) to the unlocked position (shown in FIG. 5), the threaded pin 126 is moved in the direction of arrow A. The locking member 86 is thus moved to the unlocked position (as shown in FIG. 5) and does not apply a clamping force to the support portion 72 to fix the handle member 70 in position relative to the housing 14.

To move the locking member 86 to the locked position, the actuating member 102 is moved from the unlocked position (shown in FIG. 5) to the locked position (shown in FIG. 4) causing the threaded pin 126 to be in the direction opposite to arrow A. The locking member 86 is thus moved to the locked position (shown in FIG. 4) and applies a clamping force to the support portion 72 of the housing 14.

In the unlocked position (shown in FIG. 5), the threaded pin 126 is adjustable to change the clamping force applied by the locking member 86 when the locking member 86 is in the locked position. With the actuating member 102 in the unlocked position, the exposed end 128 of the threaded pin 126 is accessible by the operator to threadably loosen or tighten the locking member 86. This adjustment of the locking member 86 may be necessary due to manufacturing tolerances or may become necessary due to wear of the movable handle arrangement 66.

The locking assembly 82 also includes (see FIGS. 3-5) inter-engaging teeth 130 formed on the support portion 72 of the housing 14 and on the handle member 70. The interengaging teeth 130 provide a plurality of complementary locking projections 134 and locking recesses 138 formed on the support portion 72 of the housing 14 and on the handle member 70. As shown in FIG. 3, the clamping force applied by the locking member 86 to the housing 14 causes close engagement of the inter-engaging teeth 130. As shown in FIG. 5, release of the clamping force allows the interengaging teeth 130 to be disengaged and moved relative to each other.

In the preferred embodiment, the locking assembly 82 provides both a frictional engagement, through the clamping force applied by locking member 86 to the support portion 72 of the housing 14, and a positive engagement, through the inter-engaging teeth 130. In other constructions (not shown), however, the locking assembly 82 may only provide either a frictional engagement or a positive engagement.

For example, the locking assembly 82 may include only the frictional engagement provided by a locking member, similar to the locking member 86, applying a clamping force to the support portion of the housing 14. Alternatively, the locking assembly 82 may provide only the positive engagement, such as by a locking projection that is engageable with a locking recess to fix the handle member 70 in a position relative to the housing 14. Such a positive engagement could be provided by a detent assembly between the handle member 70 and the support portion 72 of the housing 14 with locking recesses corresponding to respective positions of the handle member 70 relative to the housing 14.

The circular saw 10 also includes (see FIGS. 3-7) a switch assembly 142 for selectively connecting the motor 18 to the power source to energize the motor 18. The switch assembly 142 is operable between an unoperated condition, in which the motor 18 is not connected to the power source, and an operated condition, in which the motor 18 is connected to the power source. The switch assembly 142 includes a depressable trigger 146 connected to an on/off switch 150. In the illustrated construction, the trigger 146 and the switch 150 are mounted for movement with the handle member 70 and relative to the motor 18.

The circular saw 10 also includes means for connecting the switch 150 to the motor 18. The connecting means 60 accommodates movement of the switch 150 relative to the motor 18 so that, in any position of the handle member 70 relative to the housing 14, the switch 150 is operable to selectively connect the motor 18 to the power source.

In the illustrated construction, the connecting means 65 includes a wiring arrangement 154 (see FIGS. 3-5) to electrically connected the switch 150 to the motor 18. The

wiring arrangement 154 includes wires 158 extending through a narrow opening 160 in the handle member 70 and connected to the motor 18 by respective connectors 162. The wiring arrangement 154 includes an amount of wire 158 sufficient to accommodate movement of the switch 150 to the extreme pivoted positions (shown in solid and phantom lines in FIG. 3) of the handle member 70 relative to the housing 14. The narrow opening 160 limits the movement of one end of the wires 158 thereby locating the wires 158 during movement of the handle member 70. The connectors 162 limit the movement of other end of wires 158.

In another construction (not shown), the connecting means may include a fixed first conductor mounted on the housing 14 and electrically connected to the motor 18. The first conductor extends along the path of movement of the handle member 70. In this construction, the connecting means also includes a movable second conductor fixed to the handle member 70 and electrically connected to the switch 150. The second conductor is movably connected to the first conductor and moves along the first conductor to thereby maintain the electrical connection between the switch 150 and the motor 18 at any position of the handle member 70 relative to the housing 14.

In yet another construction (not shown), the connecting means may include a remote transmitter and sensor combination to connect the switch 150 to the motor 18. In this construction, the transmitter is fixed to and moves with the handle member 70. The transmitter transmits a signal based on the condition of the switch 150, for example, an "ON" signal or an "OFF" signal. The sensor or receiver is mounted on the housing 14 and electrically connected to the motor 18. The sensor senses the transmitted signal and, if, for example, the "ON" signal is transmitted, connects the motor 18 to the power source. In this construction, the power source is directly connectable to the motor 18, rather than being connected through the switch 150.

A cover 166 is positioned over the motor 18 and the connecting means. In the illustrated construction, the cover 166 includes a channel 170 that accommodates movement of the wires 156 between the extreme pivoted positions (shown in solid and phantom lines in FIG. 3). The channel 170 also insures that the wiring arrangement 154 is protected and not damaged during movement of the handle member 70 relative to the housing 14.

The circular saw 10 also includes (see FIGS. 4-7) means for preventing the switch assembly 142 from connecting the motor 18 to the power source when the locking assembly 82 is in the unlocked condition. Further, the circular saw 10 includes means for preventing the locking assembly 82 from being operated from the locked condition to the unlocked condition when the switch assembly 142 is in the operated condition. The locking assembly 82 and the switch assembly 142 interact to prevent unintentional operation of one assembly when the other assembly is being operated.

The preventing means are provided by a locking plate 174 which interacts with both the locking assembly 82 and the switch assembly 142. The locking plate 174 includes an end 178 for engagement with the tab 122 of the actuating member 102. At the other end, the locking plate 174 includes a blocking portion 182 and an aperture 186. A depressable button 188 is connected to the locking plate 174. The button 188 includes an elongated portion to provide a debris barrier. A spring member 190 biases the locking plate 174 toward engagement with the actuating member 102 (in the direction of arrow B in FIGS. 4 and 5).

As shown in FIG. 5, with the locking assembly 82 in the unlocked condition, the locking plate 174 is moved by the

During movement of the actuating member 102 to the locked position, the tab 122 engages the end 178 and moves the locking plate 174 in the direction opposite to arrow B. Alternatively, the operator depresses the button 188 to move the locking plate 174. Once the actuating member 102 is in 10 the locked position, the end 178 engages in the recess formed on the tab 122.

As shown in FIG. 4, with the locking assembly 82 in the locked condition, the locking plate 174 is in a position in which the upper portion 194 of the trigger 146 is movable 15 into the aperture 186. In this position, the locking plate 174 does not block movement of the trigger 146 and does not prevent the switch 150 from connecting the motor 18 to the power source.

In order to move the actuating member 102 to the 20 unlocked position, the locking plate 174 must be moved in the direction opposite to arrow B. To move the locking plate 174, the operator depresses the button 188, disengaging the end 178 from recess formed on the tab 122. In the illustrated construction, the actuating member 102 cannot be moved to the unlocked position without the operator depressing the button 188. This reduces the likelihood that the actuating member 102 can be accidentally moved to the unlocked position and that the locking assembly 82 can be accidentally released.

In another construction (not shown), the locking plate 174 does not include the button 188. An unlocking force applied by the operator to move the actuating member 102 to the unlocked position causes the tab 122 to move the locking plate 174 in the direction opposite to arrow B. In such a construction, the configuration of the tab 122 would ensure that the required unlocking force is much greater than a force that would be applied if, for example, the operator accidentally pulled on the actuating member 102. This construction also reduces the likelihood of the locking assembly 82 being accidentally unlocked.

In either construction, however, when the trigger 146 is depressed (as shown in solid lines in FIG. 4), the upper portion 194 of the trigger 146 engages the forward wall of 45 the aperture 186, and the locking plate 174 is prevented from moving in the direction opposite to arrow B. Thus, the locking plate 174 provides a means for preventing the locking assembly 82 from being moved from the locked condition to the unlocked condition when the switch assem- 50 erated condition by releasing the trigger 146. bly 142 is in the operated condition.

With the trigger in the unoperated condition (as shown in phantom lines in FIG. 4), the upper portion 194 of the trigger 146 does not engage the forward wall of the aperture 186. The locking plate 174 can be moved in the direction opposite 55 to arrow B, and the actuating member 102 can be moved to the unlocked position (shown in FIG. 5).

In other constructions (not shown), the preventing means may be provided by other mechanical interaction between the locking assembly 82 and the switch assembly 142. For 60 example, the preventing means may be provided by direct interaction (not shown) between the trigger 146 and the actuating member 102 without an additional component such as the locking plate 174.

In yet other constructions, the preventing means may be 65 motor 18 and cut the workpiece W. provided by non-mechanical means, such as by additional electrical switches which must be operated to enable opera-

tion of the locking assembly 82 and/or the switch assembly 142. For example, the locking assembly 82 can include a switch (not shown) electrically connected to the switch 150. This additional switch would prevent the switch 150 from connecting the motor 18 to the power source when the locking assembly 82 is in the unlocked condition

In the illustrated construction, the switch assembly 142 also includes (see FIGS. 3-7, 8A and 8B) a shuttle switch 198 for further preventing unintentional operation of the trigger 146, thereby further preventing unintentional operation of the switch 150 and the motor 18. The shuttle switch 198 is supported for lateral movement (in the direction of arrow C in FIGS. 8A and 8B) by the handle member 70. The shuttle switch 198 includes (see FIGS. 8A and 8B) two ribs 202 and defines three pockets 206. A biasing member 210 (see FIG. 6) biases the shuttle switch 198 to a centered position (as shown in FIG. 8A).

With the shuttle switch 198 in the centered position (shown in FIG. 8A), the upper portion 194 of the trigger 146 contacts the ribs 202, preventing the switch 150 from connecting the motor 18 to the power source. To operate the switch 150, the shuttle switch 198 must first be moved laterally (in the direction of arrow C in FIGS. 8A and 8B) against the force of the biasing member 210. With the shuttle switch 198 in a lateral position (such as that shown in FIG. 8B), the upper portion 194 of the trigger 146 does not contact the ribs 202 but passes into the pockets 206 defined between the ribs 202. The trigger 146 can thus operate the switch 150 to connect the motor 18 to the power source. It should be understood that the shuttle switch 198 can also be to a lateral position opposite to that shown in FIG. 8B to allow movement of the trigger 146.

Movement of the shuttle switch 198 to a lateral position (such as that shown in FIG. 8B) does not affect operation of the trigger 146 when the locking assembly 82 is in the unlocked condition (as shown in FIG. 5). Further, with the locking assembly 82 in the locked condition, the shuttle switch 198 must also be moved to the position shown in FIGS. 4 and 8B to allow the trigger 146 to be operated.

In operation, the operator selects the desired position of the handle member 70 relative to the housing 14 and ensures that the locking assembly 82 is in the locked condition as shown in FIGS. 1A, 2 and 4. The operator then operates the circular saw 10 to cut the workpiece W.

When the operator wants to change the position of the handle member 70 relative to the housing 14, for example, when the depth of cut of the saw blade 22 is adjusted, the operator first moves the switch assembly 142 to the unop-

The operator can then move the locking assembly 82 to the unlocked condition. The button 188 is depressed, and the actuating member 102 is moved to the unlocked position (as shown in FIG. 5) so that the locking member 86 does not apply a clamping force to the support portion 72 of the housing 14 and the inter-engaging teeth 130 are disengaged. The handle member 70 is then moved to the desired position relative to the housing 14, and the locking assembly 82 is moved to the locked condition. The locking member 86 applies the clamping force to the support portion 72 of the housing 14, and the inter-engaging teeth 130 are engaged. To continue cutting operations, the operator then moves the shuttle switch 198 to a lateral position (such as that shown in FIG. 5B), and depresses the trigger 146 to operate the

As shown in FIGS. 1A-1C, the operator can adjust the handle member 70 after the depth of cut of the saw blade 22

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has been adjusted to maintain a "push handle" orientation (illustrated in FIGS. 1Λ and 1C). The operator can also adjust the position of the handle member 70 to provide additional comfort to the operator. For example, if the operator is cutting a workpiece W that is positioned lower than the operator's waist, the operator might prefer a top handle position and may thus move the handle member 70 upwardly. Alternatively, in some cutting operations, the operator may prefer the "push handle" orientation to the "top handle" orientation. The operator can then move the handle member 70 from the higher "top handle" orientation to the lower "push handle" orientation.

Various features of the invention are set forth in the following claims.

We claim:

- 1. A power tool comprising:
- a housing;
- a motor supported by said housing and operable to drive a tool element relative to a first axis;
- a handle supported by said housing for movement relative to said housing about a second axis generally parallel to said first axis, said first axis and said second axis are fixed relative to said housing, said handle being shaped to be grasped by an operator to provide for movement of said power tool relative to a work piece; and
- a switch assembly supported on said handle for movement with said handle, said switch assembly being electrically connectable to said motor and operable to selectively connect said motor to a power source.
- 2. The power tool as set forth in claim 1 wherein said handle is pivotable relative to said housing about said first
- 3. The power tool as set forth in claim 1 and further comprising means for connecting said switch assembly to said motor to accommodate movement of said switch assembly with said handle and relative to said motor.
- 4. The power tool as set forth in claim 1 and further comprising a locking assembly operable between a locked condition, in which said handle is fixed in a position relative to said housing, and an unlocked condition, in which said handle is movable relative to said housing.
- 5. The power tool as set forth in claim 4 wherein said switch assembly is operable between an unoperated condition, in which said motor is not connected to the power source, and an operated condition, in which said motor is connected to the power source, and wherein said switch assembly, in the operated condition, prevents said locking assembly from being operated from the locked condition to the unlocked condition.
- 6. The power tool as set forth in claim 1 wherein the power tool is a circular saw.
- 7. A circular saw comprising:
- a motor operable to rotatably drive a saw blade about an
- a motor housing supporting said motor;
- a main handle supported by said housing for movement relative to said housing, said main handle being graspable by an operator to provide for movement of said power tool relative to a work piece, said main handle being pivotable relative to said housing; and
- a locking assembly for locking said main handle in a position relative to said housing.
- 8. The circular saw as set forth in claim 7 wherein said main handle is pivotable about said axis.
 - 9. A circular saw comprising:
 - a motor operable to rotatably drive a saw blade about an

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- a motor housing supporting said motor;
- a main handle supported by said housing for movement relative to said housing; and
- a switch assembly including a switch and supported by said main handle for movement with said main handle, said switch being electrically connectable to said motor and operable to selectively connect said motor to a power source.
- 10. The circular saw as set forth in claim 9 wherein said switch assembly is movable relative to said motor, and wherein said circular saw further comprises a wiring arrangement electrically connecting said switch to said motor and accommodating movement of said switch assembly relative to said motor.
- 11. A method for assembling a circular saw, said method comprising the acts of:
 - providing a motor operable to rotatably drive a saw blade about an axis and connectable to a power source, a motor housing, and a handle;

supporting the motor in the housing; and

supporting the handle on the housing for movement relative to the housing.

- 12. The method as set forth in claim 11 wherein said act of supporting the handle includes supporting the handle for pivoting movement relative to the housing.
- 13. The method as set forth in claim 11 and further comprising the acts of:

providing a switch assembly;

- supporting the switch assembly on the handle for movement with the handle relative to the housing; and
- electrically connecting the switch assembly to the motor so that the switch assembly is operable to selectively connect the motor to the power source.
- 14. The method as set forth in claim 11 and further comprising the acts of:

providing a locking assembly;

- supporting the locking assembly on at least one of the handle and the housing; and
 - operating the locking assembly to lock the handle in a supported position relative to the housing.
- 15. The method as set forth in claim 14 wherein said operating act includes applying a clamping force to one of the housing and the handle to lock the handle in a supported position relative to the housing.
- 16. The method as set forth in claim 15 wherein said applying act includes applying the clamping force to the housing.
- 17. A circular saw comprising:
- a motor operable to rotatably drive a saw blade about an axis;
- a motor housing supporting said motor;
- a handle supported by said housing for movement relative to said housing; and
- a locking assembly operable to lock said handle in a position relative to said housing.
- 18. The circular saw as set forth in claim 17 wherein said 60 locking assembly is operable between a locked condition, in which said handle is locked in a position relative to said housing, and an unlocked condition, in which said handle is movable relative to said housing.
- 19. The circular saw as set forth in claim 17 wherein said 65 locking assembly includes
 - a locking protrusion formed on one of said handle and said housing, and

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- a locking recess formed on the other of said handle and said housing, said locking protrusion being engageable with said locking recess to fix said handle in a position relative to said housing.
- 20. The circular saw as set forth in claim 19 wherein said 5 locking assembly includes
 - a locking protrusion formed on one of said handle and said housing, and
 - a plurality of locking recesses formed on the other of said handle and said housing, said locking protrusion being engageable with at least one of said plurality of locking recesses to fix said handle in a position relative to said housing.
- 21. The circular saw as set forth in claim 19 wherein said locking assembly includes
 - a plurality of locking protrusions formed on one of said handle and said housing, and
 - a plurality of locking recesses formed on the other of said handle and said housing, said plurality of locking protrusions being engageable with said plurality of locking recesses to fix said handle in a position relative to said housing.
- 22. The circular saw as set forth in claim 19 wherein said locking assembly includes
 - a locking member operable between a locked position, in which said handle is fixed in a position relative to said housing, and an unlocked position, and
- an actuating member for operating said locking member between the locked position and the unlocked position. ³⁰
- 23. The circular saw as set forth in claim 22 wherein said handle has an upper surface, and wherein said actuating member is located on said upper surface.
- 24. The circular saw as set forth in claim 22 wherein said actuating member includes a lever portion engageable by an operator and a cam portion connected to said lever portion, said cam portion biasing said actuating member to maintain said clamping member in the locked position.
- 25. The circular saw as set forth in claim 22 wherein said locking member is a clamping member operable to apply, in the locked position, clamping force to one of said housing and said handle to fix said handle in a position relative to said housing.
- 26. The circular saw as set forth in claim 25 wherein said locking assembly includes an adjustment member to adjust the clamping force applied by said clamping member.
- 27. The circular saw as set forth in claim 25 wherein said clamping member is supported on said handle to selectively apply clamping force to said housing.
- 28. The circular saw as set forth in claim 27 wherein said 50 handle has first and second ends, wherein said clamping member has opposite ends, one opposite end being connected to said first end of said handle and the other opposite end being movably connected to said second end of said handle, and wherein said other opposite end of said clamping member is movable relative to said second end of said handle so that said clamping member selectively applies the clamping force to said housing.
- 29. The circular saw as set forth in claim 28 wherein said locking assembly further includes
 - a plurality of locking protrusions formed on one of said handle and said housing, and
- a plurality of locking recesses formed on the other of said handle and said housing, and wherein, when said clamping member applies clamping force to said housing, said plurality of locking protrusions is engage-

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- able with said plurality of locking recesses to fix said handle in a position relative to said housing.
- 30. The circular saw as set forth in claim 29 wherein said plurality of locking protrusions and said plurality of locking recesses are provided by a plurality of inter-engaging teeth formed on each of said handle and said housing.
- 31. The power tool as set forth in claim 1 wherein said handle is a main handle, and wherein said power tool further comprises a second handle supported by the housing, said main handle and said second handle being graspable by an operator to provide for movement of said power tool relative to a work piece.
 - 32. A power tool comprising:
 - a housing;
 - a motor supported by said housing and operable to drive a tool element relative to a first axis;
 - a handle supported by said housing for movement relative to said housing about a second axis generally parallel to said first axis, said first axis and said second axis being fixed relative to said housing, said handle being shaped to be grasped by an operator to provide for movement of said power tool relative to a work piece, said handle being movable relative to said housing between a first position and a second position, said handle being operable, in said first position and in said second position, to move said power tool relative to a work piece; and
- a switch assembly supported on said handle for movement with said handle, said switch assembly being electrically connectable to said motor and operable to selectively connect said motor to a power a source.
- 33. The power tool as set forth in claim 32 wherein said handle is movable to a third position, said handle being operable in said third position to move said power tool relative to a work piece.
- 34. The power tool as set forth in claim 33 wherein said third position is between said first position and said second position.
- 35. The power tool as set forth in claim 32 wherein said handle is pivotable relative to said housing about said first axis
- 36. The power tool as set forth in claim 32 and further comprising means for connecting said switch assembly to said motor to accommodate movement of said switch assembly with said handle and relative to said motor.
- 37. The power tool as set forth in claim 32 and further comprising a locking assembly operable between a locked condition, in which said handle is fixed in a position relative to said housing, and an unlocked condition, in which said handle is movable relative to said housing.
- 38. The power tool as set forth in claim 37 wherein said switch assembly is operable between an unoperated condition, in which said motor is not connected to the power source, and an operated condition, in which said motor is connected to the power source, and wherein said switch assembly, in the operated condition, prevents said locking assembly from being operated from the locked condition to the unlocked condition.
- 39. The power tool as set forth in claim 32 wherein the power tool is a circular saw.
- 40. The power tool as set forth in claim 32 wherein said handle is a main handle and further comprising of a second handle.

* * * * *



100 East Wisconsin Avenue Suite 3300 Milwaukee, WI 53202-4108 Phone 414.271.6560 Fax 414.277.0656

Edward R. Lawson, Jr. Direct 414.225.2762 Email erlawson@michaelbest.com

September 9, 2005

Roland Menken Positec Germany GmbH Emanuel-Leutz-Str. 17 D-40547 Dusseldorf **GERMANY**

WORX Circular Saw and Re:

Milwaukee Electric Tool Corporation's Intellectual Property Rights

Our File No. 066042-9753

Dear Mr. Menken:

This firm represents Milwaukee Electric Tool Corporation ("Milwaukee") in connection with intellectual property matters. Milwaukee has brought to our attention advertising materials relating to your company's circular saw with a movable handle (the "WORX Circular Saw"). For your reference, we have enclosed a copy of the advertising materials.

Milwaukee owns U.S. and foreign patents and patent applications directed to many independent features of its circular saw. For your reference, we have also enclosed a copy of Milwaukee's U.S. Patent Nos. 6,108,916; 6,301,790 and 6,588,112; and U.S. Patent Application Publication No. 2004/0003698 A1.

We have reviewed the advertising materials relating to the WORX Circular Saw and Milwaukee's intellectual property rights. From our review of the advertising materials, it appears that the WORX Circular Saw includes a main handle which is movable relative to the housing. You should be aware that this feature is proprietary and a valuable property right of Milwaukee.

If your company does not manufacture the WORX Circular Saw or if potentially infringing components of the WORX Circular Saw are manufactured by others, please provide to us the name, address and contact information of these manufacturers so that Milwaukee can advise such parties of Milwaukee's intellectual property rights.

If you have any questions of comments, please contact us.

Sincerely,

MICHAEL BEST & FRIEDRICH LLP

Edward R. Lawson, Jr.

ERL/pb **Enclosures**

cc: Ms. Dyann Kostello



WHAT'S NEW | THE GOODS I

No. 10 Meaching

Aopen XC Cube Mini » Using laptop components and a solid copper heat sink, Aopen packed a full-featured computer that won't overheat into a box smaller than a toaster. 1.2-1.8 gigahertz, up to 2 gigs of ram. Starting at \$800 » aopen.com



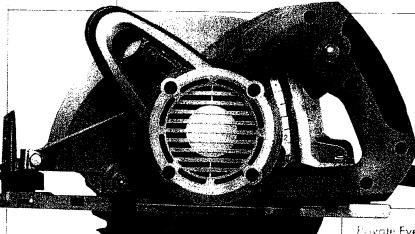
Put Down That Roler

Craftsman Dual Laser Drill " Line up your hole with the one you just drilled: Two laser beams extend horizontally and vertically across the wall. Two levels (one for each axis) on the butt of the drill help you keep things in line. \$80 » craftsman.com

Angle of Repose



JVC Everio GZ-MG30 » The 30-gig hard drive in this palm-size digital video camera will record seven hours of DVD-quality MPEG-2 footage or 37 hours at Web quality. Too bad the battery lasts only an hour (an extra, 5.5-hour cell costs \$150]. 25x optical zoom. \$900 > jvc.com



Worx Blade Runner » As you move this 7.25-inch circular saw away from your body, the handle rotates up to 45 degrees to keep the saw flat against whatever you're cutting without contorting your wrist. \$150 » worxpowertools.com

actual size



SuperCircuits PC-208 * The world's smallest color spy cam uses a compact CMOS sensor instead of a CCD to keep it to less than a centimeter in every dimension. It'll run for up to 100 hours on eight AAs. 380 lines of resolution. \$150 » supercircuits.com



Search and Employ

Howking HWL2 Scan for 802.11 b/g. Wi-Fi coverage, and then plug this device into your PC to use as a wireless adapter. It gauges signal strength and direction and whether the network is secure. \$90

» hawkingtech.com

Have Silence, Will Frovel

Solitude Headset

» The pilot who designed these headphones took audio samples of cabin noise from eight different commercial airplanes to model their noise-canceling algorithms. They counteract up to 22 décibels of noise, the best in the industry. \$200 » solitudeheadsets.com



PocketDish » in its dock, this portable media player records everything your DVR does. Want to watch a show on the road? Grab it and go. 40 gigs, seven-inch screen. Price not set » dishnetwork.com







Head Flexpoint 4 > Holes drilled at the frame's three and nine o'clock positions let this tennis racket's head flex and cup around the ball, increasing the amount of time the ball is on the strings so that you have more time to guide it. \$225 " head.com



Maid of the Mist **LG Tromm Steam** Washer » In an effort to conserve energy, this highcapacity washer can steam clothes to remove wrinkles and odors, using 44 percent less water than a full wash cycle. \$1,500

» lgusa.com

Page 1 of 1

Miotke, Joseph T.

From: Ronald Wischmann [ronald.wischmann@positec.biz]

Monday, September 19, 2005 8:40 AM

To: Lawson, Edward R.
Cc: don.gao@positec.biz

Subject: Patent Rights Milwaukee

Dear Sir,

nt:

dated September 9th 2005 you have send a letter to our adress in Germany. Your reference File No. is 066042-9753. We have received your letter on September 19th 2005.

We kindly let you know that we have forwarded this letter including all it's enclosures to Positec Machinery Co.Ltd., 461 East Ganjiang Road, Suzhou 215006 China.

Kind Regards

Mit freundlichen Grüßen

Ronald Wischmann Managing Director Positec Germany GmbH

+49 (170) 4739326 mailto:ronald.wischmann@positec.biz



Michael Best & Friedrich LLP Attorneys at Law 100 East Wisconsin Avenue Suite 3300 Milwaukee, WI 53202-4108 Phone 414.271.6560 Fax 414.277.0656

Edward R. Lawson, Jr.
Direct 414.225.2762
Email erlawson@michaelbest.com

October 10, 2005

Positec Machinery Co. Ltd 461 East Ganjiang Road Suzhou 215006 CHINA

Re: WORX Circular Saw and

Milwaukee Electric Tool Corporation's Intellectual Property Rights

Our File No. 066042-9753

Dear Sirs:

As you may have been advised, this firm represents Milwaukee Electric Tool Corporation ("Milwaukee") in connection with intellectual property matters. Milwaukee has brought to our attention advertising materials relating to your company's circular saw with a movable handle (the "WORX Circular Saw"). For your reference, we have enclosed a copy of the advertising materials.

On September 9, 2005, we advised Positec Germany GmbH of Milwaukee's intellectual property rights. Mr. Ronald Wischmann indicated in an email to me on September 19, 2005 that he forwarded our letter and enclosures to your company. This letter is to ensure that your company receives this notice.

Milwaukee owns U.S. and foreign patents and patent applications directed to many independent features of its circular saw. For your reference, we have also enclosed a copy of Milwaukee's U.S. Patent Nos. 6,108,916; 6,301,790 and 6,588,112; and U.S. Patent Application Publication No. 2004/0003698 A1.

We have reviewed the advertising materials relating to the WORX Circular Saw and Milwaukee's intellectual property rights. From our review of the advertising materials, it appears that the WORX Circular Saw includes a main handle which is movable relative to the housing. You should be aware that this feature is proprietary and a valuable property right of Milwaukee.

If your company does not manufacture the WORX Circular Saw or if potentially infringing components of the WORX Circular Saw are manufactured by others, please provide to us the name, address and contact information of these manufacturers so that Milwaukee can advise such parties of Milwaukee's intellectual property rights.



Positec Machinery Co. Ltd October 10, 2005 Page 2

If you have any questions of comments, please contact us.

Sincerely,

MICHAEL BEST & FRIEDRICH LLP

Edward R. Lawson, Jr.

ERL/pb **Enclosures**

Lawson, Edward R.

⁻ ¬m: Jia.Wu [Jia.Wu@positec.biz]

Sunday, October 23, 2005 9:36 PM

Lawson, Edward R.

Dear Mr Lawson:

I hereby represents Positec China in connection with intellectual property matters. I am preparing to reply your first letter when I got your second letter. I should appologize for any delay because of transfer issue.

We have read both of your letters carefully and we feel that Positec does not make use of any valid claim of Milwaukee.

If you have any questions please contact me.

Best regards, Jia Wu/

General MGT Dept.

Positec China

Tel: 0086-512-65152758 Fax: 0086-512-65152885 M.P: 13951119611

Email: jia.wu@positec.biz

Lawson, Edward R.

om:

Lawson, Edward R.

_≀nt:

Friday, November 04, 2005 11:14 AM

To:

'Jia.Wu'

Cc: Subject: 'Dyann Kostello (dyann.kostello@milwaukeetool.com)' RE: WORX Circular Saw (Our File No. 066042-9753)

Dear Mr. Wu,

We received your e-mail of October 23, 2005.

In your e-mail, you assert that the WORX Circular Saw does not infringe Milwaukee's patent rights. If your company has a basis for arguing that the WORX Circular Saw and any other similar circular saw sold by your company do not infringe Milwaukee Electric's intellectual property rights or if your company contends that any of the Milwaukee intellectual property identified in our letters is invalid, we insist that you provide to us the basis for your opinion.

Further, in order for us to verify your assertion, please provide to us details including, for example, engineering drawings, photographs, etc., regarding the construction and operation of the WORX Circular Saw. Also, please provide to us sales information so that we can obtain a sample of the WORX Circular Saw for review.

In closing, you should understand that Milwaukee values and will enforce its intellectual property rights. If you have any questions, please contact us.

Sincerely,

Edward R. Lawson Jr.

----Original Message----

From: Jia.Wu [mailto:Jia.Wu@positec.biz] Sent: Sunday, October 23, 2005 9:36 PM

To: Lawson, Edward R.

Subject:

Dear Mr Lawson:

I hereby represents Positec China in connection with intellectual property matters. I am preparing to reply your first letter when I got your second letter. I should appologize for any delay because of transfer issue. We have read both of your letters carefully and we feel that Positec does not make use of

We have read both of your letters carefully and we feel that Positec does not make use of any valid claim of Milwaukee.

If you have any questions please contact me.

Best regards, Jia Wu/ General MGT Dept. Positec China

Tel: 0086-512-65152758
Fax: 0086-512-65152885
M.P: 13951119611

Email: jia.wu@positec.biz



Michael Best & Friedrich LLP Attorneys at Law 100 East Wisconsin Avenue **Suite 3300** Milwaukee, WI 53202-4108 Phone 414.271.6560 Fax 414.277.0656

Edward R. Lawson, Jr. Direct 414.225.2762 Email erlawson@michaelbest.com

December 15, 2005

VIA E-MAIL **CONFIRMATION VIA DHL**

Mr. Jai Wu Positec Machinery Co. Ltd 461 East Ganjiang Road Suzhou 215006 **CHINA**

WORX Circular Saw and Re:

Milwaukee Electric Tool Corporation's Intellectual Property Rights

Our File No. 066042-9753

Dear Mr. Wu:

This letter follows our earlier correspondence of September 9, 2005 to Positec Germany GmbH and of October 10, 2005 and November 4, 2005 to Positec Machinery Co. Ltd.

We have now obtained a sample of the WORX Circular Saw for review. We reviewed the WORX Circular Saw in relation to Milwaukee's U.S. Patent No. 6,588,112 (the "'112 Patent") and U.S. Patent Application Publication No. 2004/0003698 A1 (the "'698 Application"), copies of which were provided to you in our earlier letters. You should again be aware that Milwaukee owns further U.S. and foreign patent and applications directed to features of its circular saw.

Our inspection of the WORX Circular Saw indicates that the WORX Circular Saw, as sold by your company, includes a movable handle covered by claims in Milwaukee's '112 Patent and 698 Application.

As you know, the WORX Circular Saw is a power tool including a handle supported by a housing for movement relative to the housing about an axis, the handle being shaped to be grasped by an operator to provide for movement of the power tool relative to a work piece. Also, in the WORX Circular Saw, the handle is pivotable relative to the housing about the first axis. The WORX Circular Saw also includes a locking assembly operable between a locked condition, in which the handle is fixed in a position relative to the housing, and an unlocked condition, in which the handle is movable relative to the housing.

As you also know, the WORX Circular Saw includes a handle supported by the housing for movement relative to the housing about an axis, the handle being shaped to be grasped by an operator to provide for movement of the power tool relative to a work piece, the handle being movable relative to the housing between a first position and a second position, the handle being



Mr. Jai Wu December 15, 2005 Page 2

operable, in the first position and in the second position, to move the power tool relative to a work piece. In the WORX Circular Saw, the handle is movable to a third position, the handle being operable in the third position to move the power tool relative to a work piece, the third position being between the first position and the second position. In the WORX Circular, the handle is a main handle, and the WORX Circular Saw further includes a second handle.

You should be aware that the employment of these features in a circular saw or power tool was invented by Milwaukee and that Milwaukee patent rights cover these and other features. These Milwaukee design features, among others, are proprietary and a valuable property right of Milwaukee.

Based on our review of the WORX Circular Saw, it is our opinion that at least Claims 1-2, 4, 6, 32-35, 37, and 39-40 of Milwaukee's '112 Patent are infringed by the manufacture and sale of the WORX Circular Saw. Also, based upon our review of the WORX Circular Saw, it is our opinion that at least Claims 1-3 and 7 of Milwaukee's published '698 Application read on the WORX Circular Saw.

Your company must <u>immediately</u> cease the advertisement, offering for sale, sale, use and manufacture of these infringing WORX Circular Saws and other substantially similar infringing circular saws or power tools. We expect confirmation that your company has indeed ceased infringement of Milwaukee's intellectual property rights no later than <u>December 29, 2005</u>. If your company fails to cease its infringing activities, Milwaukee will be forced to commence an infringement action to enforce its intellectual property rights and to stop your company's infringement.

However, if your company has a basis for arguing that the WORX Circular Saw and any other substantially similar circular saw or power tool sold by your company do not infringe Milwaukee's intellectual property rights or if your company contends that any of Milwaukee's intellectual property, described above, is invalid, we insist that you provide to us the basis for your opinion no later than **December 29, 2005**. If we do not receive a response to this request, we can only assume that your company does not have such a basis for argument.

In order to determine the compensation due to Milwaukee as a result of your company's infringement of Milwaukee's intellectual property rights, we also insist that your company provide to us a full and complete accounting of any infringing circular saws or power tools manufactured, sold or used in Germany, in the United Kingdom, or in the U.S., including, for each country, an identification of the number of each product manufactured, the number of sales of each product and the sales price of each product. In addition, we insist that your company provide to us a full and complete accounting of your company's total inventory of infringing circular saws or power tools.

If your company does not manufacture the WORX Circular Saw and the other substantially similar circular saws or power tools, we insist that you provide to us <u>immediately</u> the name,



Mr. Jai Wu December 15, 2005 Page 3

address and contact information of the manufacturer and of the importer, if these parties are different, so that Milwaukee can enforce its intellectual property rights against such parties.

Again, we expect your company to immediately cease the advertisement, offering for sale, sale, use and manufacture of the infringing WORX Circular Saw and other substantially similar circular saws or power tools. Also, no later than **December 29, 2005**, we expect confirmation that your company has indeed ceased infringement of Milwaukee's intellectual property rights. Absent a confirmation from you by that deadline, we will be forced to take alternative action.

In closing, you should understand that Milwaukee values and will enforce its intellectual property rights. If you have any questions, please contact us.

Sincerely,

MICHAEL BEST & FRIEDRICH LLP

Edward R. Lawson, Jr.

ERL/pb

cc: Dyann L. Kostello, Esq.

Exhibit 8

.

LEXSEE 2001 U.S. DIST. LEXIS 1505

R & P POOLS, INC. d/b/a Island Pools, Plaintiff, -vs- THE NEW KAYAK POOL CORPORATION a/k/a Kayak Pool Corporation and MARK S. WALLACH, as Trustee of the Bankruptcy Estate of Kayak Manufacturing Corp., Defendant.

01-CV-0051E(M)

UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF NEW YORK

2001 U.S. Dist. LEXIS 1505

February 13, 2001, Decided February 14, 2001, Opinion Filed

NOTICE: [*1] NOT FOR PUBLICATION

DISPOSITION: Case dismissed.

CASE SUMMARY:

PROCEDURAL POSTURE: Plaintiff sought a declaration that defendant was not the owner of two patents which it was seeking to enforce against a third party and that such patents were invalid and otherwise enforceable. In conjunction with its complaint, plaintiff filed a motion for a preliminary injunction.

OVERVIEW: Plaintiff purchased items of equipment from a third-party to whom defendant had written a cease and desist letter stating that defendant owned patents covering the items and that the third-party was infringing the patents. A copy of the letter was sent to plaintiff who filed suit against defendant. Plaintiff sought a preliminary injunction because it intended to list the items in its spring catalog, the third-party was threatening to stop production, and that without a declaration as to the patents' validity, plaintiff would be irreparably harmed. The court denied the preliminary injunction and dismissed the lawsuit for lack of subject matter jurisdiction. Plaintiff lacked the first criteria for standing to bring the action an explicit threat or other action by defendant which created a reasonable apprehension on the part of plaintiff that it would face an infringement suit. Plaintiff was not entitled to an advisory opinion on the validity of defendant's patents under the circumstances.

OUTCOME: Preliminary injunction was denied and the declaratory judgment action was dismissed for lack of subject matter jurisdiction because plaintiff lacked standing.

LexisNexis(R) Headnotes

Civil Procedure > Justiciability > Case or Controversy [HN1] When faced with a declaratory judgment action, a federal court must first determine if there is an actual case or controversy over which it may exercise jurisdiction, because to proceed in the absence of a case or controversy would involve the court in rendering a forbidden advisory opinion.

Patent Law > Remedies > Declaratory Relief
Patent Law > Infringement Actions > Burdens of Proof
Patent Law > Inequitable Conduct > General Overview
[HN2] In order to constitute a case and controversy sufficient to give a plaintiff standing to seek a declaratory
judgment in a patent case, the plaintiff must establish,
based on the facts as they existed when the complaint
was filed: (1) an explicit threat or other action by the
patentee, which creates a reasonable apprehension on the
part of the declaratory plaintiff that it will face an infringement suit, and (2) present activity which could
constitute infringement or concrete steps taken with the
intent to conduct such activity.

Civil Procedure > Justiciability > Case or Controversy [HN3] Even if there is an actual controversy and thus jurisdiction, the exercise of that jurisdiction rests within the sound discretion of the district court.

COUNSEL: For PLAINTIFF: Lisa T. Sofferin, Esq., Brown & Kelly, Buffalo, NY.

Page 2

2001 U.S. Dist. LEXIS 1505, *

For DEFENDANT: Randolph C. Oppenheimer, Esq., Kavinoky & Cook, Buffalo, NY.

JUDGES: John T. Elfvin, S.U.S.D.J.

OPINIONBY: John T. Elfvin

OPINION:

MEMORANDUM and ORDER

Plaintiff R&P Pools, Inc. d/b/a Island Pools ("Island Pools") filed this action February 2, 2001 pursuant to 28 U.S.C. § § 1338 and 2201(a) seeking a declaration that defendant New Kayak Pool Corporation ("New Kayak") is not the owner of two patents which it seeks to enforce against a third party Total Vinyl Products, Inc. ("Total Vinyl") and that such patents are invalid and otherwise enforceable. In conjunction with its complaint, plaintiff filed a motion for a preliminary injunction and such is presently before this Court for disposition.

New Kayak is a manufacturer of above ground swimming pools and related parts and liners. Compl. P15. Island Pools is a retailer of swimming pool and spa products including inter alia, replacement deep-end liners for New Kayak pools. Id. P10. Plaintiff purchases replacement deep-end liners for New Kayak pools from various manufacturers, including Total [*2] Vinyl which is its largest supplier. Id. PP49, 56. On January 4, 2001 New Kayak sent a cease and desist letter to Total Vinyl stating that it owned two patents for deep-end pool liners -- i.e., Des. 291,599 and Des. 300,247 -- and that Total Vinyl was infringing these patents through the manufacture of its deep-end pool liners for New Kayak pools. Id. Ex. D. Total Vinyl faxed a copy of this letter to plaintiff. as a result of which plaintiff brought the instant action.

Plaintiff states that it intends to send its Spring 2001 catalog to the printer February 15, 2001 and that this catalog will offer for sale deep-end liners made by Total Vinyl. Mot. to Shorten Time P11. Plaintiff states that "upon information and belief, Total Vinyl will not continue to manufacture the disputed deep-end liners unless and until the validity and enforceability of Patents '599 and '247 are determined" and that it "is aggrieved by the assertion of patent rights by New Kayak." Compl. PP61-62. Plaintiff states that Total Vinyl is "reluctant to manufacture the disputed deep-end liners unless and until the validity and enforceability" of the patents is determined. Mot. for Preliminary Injunction [*3] (Sofferin February 2, 2001 Aff. P13). Furthermore plaintiff states that the parent company of Total Vinyl is Kafco Industries, which is the major supplier of liners to New Kayak and that as a result of this relationship, "Total Vinyl might not be in a position to challenge New Kayak's cease and desist letter." Id. PP14-15. Plaintiff states that it will be irreparably harmed if Total Vinyl ceases production of pool liners in response to New Kayak's cease and desist letter and seeks a preliminary injunction:

> "prohibiting and enjoining New Kayak and its officers, agents, servant, employees and attorneys, and those persons in active concert or participation with them from initiating infringement litigation and from threatening any retailer, distributor and manufacturer of deep-end liners, with infringement litigation, or charging any of them, either verbally or in writing, with infringement of Patents '599 and '247." Mot. for preliminary Injunction (Sofferin February 2, 2001 Aff.).

[HN1] When faced with a declaratory judgment action, a federal court must first determine if there is an actual case or controversy over which it may exercise jurisdiction, because "to proceed in the [*4] absence of a case or controversy would involve the court in rendering a forbidden advisory opinion." Arrowhead Industrial Water, Inc. v. Ecolochem, Inc., 846 F.2d 731, 735 (Fed. Cir. 1988). [HN2] In order to constitute a case and controversy sufficient to give a plaintiff standing to seek a declaratory judgment in a patent case, the plaintiff must establish, based on the facts as they existed when the complaint was filed: "(1) an explicit threat or other action by the patentee, which creates a reasonable apprehension on the part of the declaratory plaintiff that it will face an infringement suit, and (2) present activity which could constitute infringement or concrete steps taken with the intent to conduct such activity." B.P. Chemicals, Ltd. v. Union Carbide Corp., 4 F.3d 975, 978 (Fed. Cir. 1993). "The declaratory judgment plaintiff bears the burden of proving that there is an actual controversy." Fina Research, S.A., v. Baroid Limited, 141 F.3d 1479, 1481 (Fed. Cir. 1998). "[HN3] Even if there is an actual controversy and thus jurisdiction, the exercise of that jurisdiction rests within the sound discretion of the district court. [*5] " Ibid.

Plaintiff brought this declaratory judgment action based solely upon defendant sending a cease and desist letter to a third party -- Total Vinyl -- stating that Total Vinyl was infringing defendant's patents. Plaintiff does not state that it fears that defendant will bring an infringement suit against it; indeed it even states that "at no time has New kayak asserted to Island Pools, or otherwise directly placed Island Pools on notice, that the deep-end liners sold by Island Pools allegedly infringe upon any patent rights of New Kayak." Compl. P54. What plaintiff is apparently attempting to do by bringing this action is to assert the right of Total Vinyl to bring a

Page 3

2001 U.S. Dist. LEXIS 1505, *

declaratory judgment -- because it believes that Total Vinyl will not do so -- in order to obtain an advisory opinion from this Court that defendant's patents are invalid so the Total Vinyl will continue to make the deep-end liners which plaintiff intends to offer for sale through its Spring 2001 catalog. It further appears to this Court that plaintiff sought an expedited hearing on its preliminary injunction so that it could determine whether or not to include the deep end liners manufactured by Total Vinyl in [*6] its Spring 2001 catalog, as it believes that Total Vinyl will cease manufacturing such in response to the cease and desist letter. Plaintiff has failed to satisfy the first criteria for standing to bring this declaratory judgment action -- i.e., "an explicit threat or other action by [New Kayak], which creates a reasonable apprehension on the part of [Island Pools] that it will face an infringement suit." B.P. Chemicals, at 978. Plaintiff is not entitled to have this Court render an advisory opinion on the validity of defendant's patents so that it can determine whether Total Vinyl is likely to continue to manufacture deep-end liners for New Kayak pools and accordingly whether to include such in its Spring 2001 catalog.

Accordingly, it is hereby ORDERED that this case is dismissed for lack of subject matter jurisdiction and that this case shall be closed in this Court.

DATED: Buffalo, N.Y. February 13, 2001 John T. Elfvin S.U.S.D.J.

CERTIFICATE OF SERVICE

I certify that on January 17, 2006 I electronically filed the foregoing with the Clerk of the Court using CM/ECF, which will send notification of such filing to William J. Marsden, Jr.

I further certify that on January 17, 2006 I caused to be served true and correct copies of the foregoing document on the following in the manner indicated:

BY HAND

William J. Marsden, Jr. FISH & RICHARDSON P.C. 919 N. Market St., Suite 1100 Wilmington DE 19899

BY FEDERAL EXPRESS

Alan D. Smith FISH & RICHARDSON P.C. 225 Franklin Street Boston, MA 02110

> /s/ Leslie A. Polizoti Leslie A. Polizoti (#4299)